

IN THE ABSTRACT

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There is provided a radar level gauge ~~(13)~~ using microwaves for measuring a level of a surface ~~(16)~~ of a product ~~(12)~~ in a tank ~~(11)~~, comprising an antenna ~~(15)~~ for transmitting microwaves to the surface and receiving microwaves reflected by the surface, a measurement circuitry feeding said antenna through a hollow wave guide and said wave guide including at least an antenna wave guide member ~~(21)~~, at one end couplable to the antenna ~~(15)~~ and at its other end having an opening in an intersection across the wave guide, wherein the radar level gauge further comprising: a dielectric barrier ~~(25)~~ extending along said intersection across the opening of said antenna wave guide member ~~(21)~~ for non-conductively separating said antenna wave guide member from the measurement circuitry, said dielectric barrier ~~(25)~~ having a first side facing the wave guide in a direction towards the antenna wave guide member ~~(21)~~ and said dielectric barrier ~~(25)~~ having a second side facing a direction substantially away from said antenna wave guide member. ~~(Fig. 3)~~.